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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Software engineering #2: Specification-driven automated testing of GUI-based Java programs](#)

Yanhong Sun, Edward L. Jones

April 2004 **Proceedings of the 42nd annual Southeast regional conference ACM-SE 42**

Publisher: ACM Press

Full text available: [pdf\(503.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a specification-driven approach to test automation for GUI-based JAVA programs as an alternative to the use of capture/replay. The NetBeans Jemmy library provides the basic technology. We introduce a GUI-event test specification language from which an automated test engine is generated. The test engine uses the library and incorporates the generation of GUI events, the capture of event responses, and an oracle to verify successful completion of events. The engine, once genera ...

Keywords: test automation, test engine, test specification language

3 [Computing curricula 2001](#)

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

 Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 Experience with SAND-Tcl: a scripting tool for spatial databases

Claudio Esperança, Hanan Samet

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

Publisher: Digital Government Research Center

Full text available:  [pdf\(507.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The use of scripting makes it possible to overcome many important difficulties in the development of database applications. By extending a general-purpose scripting language with constructs derived both from the database kernel and from the intended application domain, issues such as query processing and user interfacing can be approached in an economical and flexible way. This is illustrated by describing our experience with *SAND-Tcl*, a scripting tool developed by us for building spatial ...

5 GUI scripting with Tcl/Tk

Derek Fountain

March 2004 **Linux Journal**, Volume 2004 Issue 119

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(21.87 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Get an interface working quickly with the old-school tool for rapidapp development.


6 The state of the art in automating usability evaluation of user interfaces



Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces


7 The impact of software engineering research on modern programming languages



Barbara G. Ryder, Mary Lou Soffa, Margaret Burnett

October 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(3.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software engineering research and programming language design have enjoyed a *symbiotic* relationship, with traceable impacts since the 1970s, when these areas were first distinguished from one another. This report documents this relationship by focusing on several major features of current programming languages: data and procedural abstraction, types, concurrency, exceptions, and visual programming mechanisms. The influences are determined by tracing references in publications in both fiel ...

Keywords: Programming Languages, Software Engineering

8 Lowering the barriers to programming: A taxonomy of programming environments and languages for novice programmers



Caitlin Kelleher, Randy Pausch

June 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 2

Publisher: ACM Press

Full text available: pdf(14.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Since the early 1960's, researchers have built a number of programming languages and environments with the intention of making programming accessible to a larger number of people. This article presents a taxonomy of languages and environments designed to make programming more accessible to novice programmers of all ages. The systems are organized by their primary goal, either to teach programming or to use programming to empower their users, and then, by each system's authors' approach, to make ...

Keywords: Human-computer interaction, computer Science education, learning, literacy, problem solving

9 A new approach to software tool interoperability



Yimin Bao, Ellis Horowitz

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing SAC '96**

Publisher: ACM Press

Full text available: pdf(1.43 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: CASE, software engineering environment, software interoperability, tool integration

10 Impact of software engineering research on the practice of software configuration management



Jacky Estublier, David Leblang, André van der Hoek, Reidar Conradi, Geoffrey Clemm, Walter Tichy, Darcy Wiborg-Weber

October 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 4

Publisher: ACM Press

Full text available: pdf(350.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software Configuration Management (SCM) is an important discipline in professional software development and maintenance. The importance of SCM has increased as programs have become larger, more long lasting, and more mission and life critical. This article discusses the evolution of SCM technology from the early days of software development to the present, with a particular emphasis on the impact that university and industrial research has had along the way. Based on an analysis of the publicati ...

Keywords: Versioning, data model, process support, research impact, software configuration management, software engineering, workspace management

11 Security and privacy: Securing web application code by static analysis and runtime



protection

Yao-Wen Huang, Fang Yu, Christian Hang, Chung-Hung Tsai, Der-Tsai Lee, Sy-Yen Kuo
May 2004 **Proceedings of the 13th international conference on World Wide Web
WWW '04**

Publisher: ACM Press

Full text available: [pdf\(2.67 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security remains a major roadblock to universal acceptance of the Web for many kinds of transactions, especially since the recent sharp increase in remotely exploitable vulnerabilities have been attributed to Web application bugs. Many verification tools are discovering previously unknown vulnerabilities in legacy C programs, raising hopes that the same success can be achieved with Web applications. In this paper, we describe a sound and holistic approach to ensuring Web application security. Vi ...

Keywords: information flow, noninterference, program security, security vulnerabilities, type systems, verification, web application security

12 A visual test development environment for GUI systems



Thomas Ostrand, Aaron Anodide, Herbert Foster, Tarak Goradia

March 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1998 ACM
SIGSOFT international symposium on Software testing and analysis
ISSTA '98**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: [pdf\(2.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have implemented an experimental test development environment (TDE) intended to raise the effectiveness of tests produced for GUI systems, and raise the productivity of the GUI system tester. The environment links a test designer, a test design library, and a test generation engine with a standard commercial capture/replay tool. These components provide a human tester the capabilities to capture sequences of interactions with the system under test (SUT), to visually manipulate and modify the s ...

Keywords: GUI-based system, capture/replay, test coverage, test designer, test generation, test maintenance, test scenario, testing, visual editor

13 Programming languages: past, present, and future: sixteen prominent computer
scientists assess our field



Peter Trott

January 1997 **ACM SIGPLAN Notices**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: [pdf\(4.67 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

14 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed,
Taking software requirements creation from folklore to analysis, SW components and
product lines: from business to systems and technology, Software engineering
survey)



September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.98 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

15 Using the WWW as the delivery mechanism for interactive, visualization-based instructional modules: report of the ITiCSE '97 working group on visualization



Thomas Naps, Joseph Bergin, Ricardo Jiménez-Peris, Myles F. McNally, Marta Patiño-Martínez, Viera K. Proulx, Jorma Tarhio

October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.57 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Visualization has long been an important pedagogical tool in CS education. The widespread use of the Web and the introduction of Java, with its ability to present interactive animated applets and other types of animation, all provide opportunities to expand the availability of visualization-based teaching and learning tools. In addition, the Web introduces new opportunities not available in traditional settings. We start by identifying the types of learning objectives that can be supported by vis ...

16 Using the WWW as the delivery mechanism for interactive, visualization-based instructional modules (report of the ITiCSE '97 working group on visualization)



Thomas Naps, Joseph Bergin, Ricardo Jiménez-Peris, Myles F. McNally, Marta Patiño-Martínez, Viera K. Proulx, Jorma Tarhio

June 1997 **The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings ITiCSE-WGR '97**

Publisher: ACM Press

Full text available: [pdf\(85.85 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Past, present, and future of user interface software tools



Brad Myers, Scott E. Hudson, Randy Pausch

March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: [pdf\(151.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A user interface software tool helps developers design and implement the user interface. Research on past tools has had enormous impact on today's developers—virtually all applications today are built using some form of user interface tool. In this article, we consider cases of both success and failure in past user interface tools. From these cases we extract a set of themes which can serve as lessons for future work. Using these themes, past tools can be characterized by what aspects ...

Keywords: event languages, interface builders, scripting languages, toolkits, user interface development environments, user interface software

18 Language-independent aspect-oriented programming



Donal Lafferty, Vinny Cahill

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The term aspect-oriented programming (AOP) has come to describe the set of

programming mechanisms developed specifically to express crosscutting concerns. Since crosscutting concerns cannot be properly modularized within object-oriented programming, they are expressed as aspects and are composed, or woven, with traditionally encapsulated functionality referred to as components. Many AOP models exist, but their implementations are typically coupled with a single language. To allow weaving of exist ...

Keywords: Weave.NET, aspect-oriented programming, common language infrastructure, language-independence

19 An Environment for Dynamic Component Composition for Efficient Co-Design

F. Doucet, S. Shukla, R. Gupta, M. Otsuka

March 2002 **Proceedings of the conference on Design, automation and test in Europe DATE '02**

Publisher: IEEE Computer Society

Full text available:  pdf(122.57 KB) Additional Information: [full citation](#), [abstract](#), [citations](#)

This article describes the Balboa component integration environment that is composed of three parts: a script language interpreter, compiled C++ components, and a set of Split-Level Interfaces to link the interpreted domain to the compiled domain. The environment applies the notion of split-level programming to relieve system engineers of software engineering concerns and to let them focus on system architecture. The script language is a Component Integration Language because it implements a component m ...

20 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

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